

## REMARKS

The amendment to claim 23 is clerical in nature. The support for "impedence spectroscopy" is discussed in detail in the response filed January 9, 2003.

With regard to the amendment to claim 24, the term "of the current" is added to describe the phase angle, because the phase angle is a property of the current.

The amendments to claim 25, 27, 31, 32, 33, and 34 which add the word "first" to modify the molecular complex, is for purposes of clarity, as claim 37 introduces a second molecule, the support for which can be found in the claims as originally filed and at page 10, lines 1-25 of the specification, which describes immunodetection applications.

The amendment to claim 38 recites that the second molecule "binds a binding compound on the surface of the electrode structures." Support for the binding compound can be found, *inter alia*, at page 9, line 15 to page 10, line 2. Also see page 8, lines 1-16.

The amendment to claim 40 finds support at page 10, lines 1-25 of the specification.

Support for the amendment to claims 44 and 45 can be found at page 10, line 26 to page 11, line 16, wherein the application of the invention to nucleic acid chemistry is discussed.

The amendments to claims 45 to 62 are formal in nature, mostly to change the dependency of the claims.

Support for new claim 63 was set forth in the office action filed January 9, 2003. Namely, page 3, line 26 and page 5, line 2 support "equal or less than 1  $\mu\text{m}$ "; page 5, line 25 to page 6, line 4 supports "sample"; page 3, lines 16 to 21 supports "alternating current"; page 6, line 26 to page 7, line 3 supports "peptides and proteins"; and page 3, lines 10-16 supports "wherein the electrode structures are arranged so closely...."

Support for new claim 64 can be found at page 8, line 17 to page 9, line 3.

Support for new claim 65 can be found at page 10, lines 3-25.

Support for new claims 66 to 69 can be found at page 4, lines 15 to 18.

Support for new claim 70 can be found at page 4, lines 18 to 20.

Support for new claim 71 can be found at page 5, lines 6 to 10.

Support for new claim 72 and 73 can be found at page 8, lines 17 to 20.

### CONCLUSION

Applicants respectfully request Examiner Sisson to consider the above supplementary information and enter the previously submitted claims, which applicants assert are in condition for allowance. Early notification of allowance is earnestly requested. Examiner Sisson is encouraged to contact the undersigned attorney for applicants at 202-912-2142 for any reason related to the advancement of this case.

Respectfully submitted,

Date: April 17, 2003

**Heller Ehrman White & McAuliffe LLP**  
1666 K Street, N.W., Suite 300  
Washington, D.C. 20006-4004  
Telephone: (202) 912-2000  
Facsimile: (202) 912-2020

Patricia D. Granados  
Patricia D. Granados  
Attorney for Applicant  
Reg. No.: 33,683

**Customer No. 26633**

PATENT TRADEMARK OFFICE



26633

PATENT TRADEMARK OFFICE